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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,564	11/28/2003	Dong-man Kim	1793.1043	6267
21171 75	590 06/29/2006		EXAM	INER
STAAS & HALSEY LLP			MILLER, BRIAN E	
JIM LIVINGST	ΓON			
SUITE 700			ART UNIT	PAPER NUMBER
1201 NEW YORK AVENUE, N.W.			2627	
WASHINGTON, DC 20005			DATE MAILED: 06/29/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summan.	10/722,564	KIM, DONG-MAN				
Office Action Summary	Examiner	Art Unit				
	Brian E. Miller	2627				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIREMONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Feiture to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 27 Ju	lv 2005					
·—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) 1-15 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on 11/28/03 is/are: a) accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice, of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	and the second s	atent Application (PTO-152)				

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Claims 1-15 are pending.

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "blocking element", as recited throughout the claims must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Specification

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3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-5, 7-12, 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Iwaki (JP 407037313). (As per claims 1 & 3) Iwaki discloses an apparatus 1 for loading a disc cartridge in a drive; as shown in FIGs. 1 & 3, where the disc cartridge 3 (FIG. 2) includes a shutter 3f and a reference surface (main surface of housing 3) (first surface) having a reference area and a low area 3a formed in the reference surface to have a low surface 3a (second surface) below the reference surface to form a step therebetween (refer to FIG. 3), the apparatus comprising: a tray 2 to accommodate the disc cartridge 3 and comprising an interference portion 8 which protrudes from an upper surface of the tray to have a height corresponding to a height of the step (refer to para [0011]); and a blocking element 10 disposed adjacent the tray at an opening 9 into the drive 1, wherein when the disc cartridge is received on the tray in a normal orientation, the interference portion is received within another portion of the low area without interfering with a movement of the shutter in the low area (see para [0013]), and when the disc cartridge is accommodated on the tray in an abnormal orientation, the interference portion

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contacts and interferes with the reference area such that the cartridge is blocked by the blocking element as the tray moves toward the opening of the drive (see para [0014] & [0015] and FIG. 3); (as per claim 2) wherein the interference portion 8 has a shape of a protrusion; (as per claim 4) wherein the disc cartridge includes the first surface adjacent (main surface of housing 3) disposed at a first level and the second surface 3a disposed at a second level other than the first level and forming a step therebetween, when the disc cartridge is disposed in the first orientation at the accommodation position with the interfering element being received at the second surface, the tray is moveable past the blocking element 10 into the opening(see para [0013]), and when the disc cartridge is disposed in the second orientation at the accommodation position with the interfering element being received at the first surface, the blocking element 10 prevents the tray 2 from entering the opening 9 (see para [0014] & [0015] and FIG. 3); (as per claim 5) wherein the interfering element 8 allows the disc cartridge 3 to remain substantially parallel with a surface 6 of the tray when in the first orientation, i.e., correct insertion, and elevates a portion of the disc cartridge away from the surface of the tray so as to contact the blocking element 10 to prevent entry into the opening 9 when in the second orientation, i.e., incorrect insertion-see FIG. 3); (as per claim 7) wherein the shutter moves within an area adjacent to and coplanar with the second surface 3a; (as per claim 8) wherein the shutter moves within an area adjacent to the second surface 3a at which the interfering element 8 is not received; (as per claim 9) wherein the shutter moves within an area adjacent to the second surface 3a at which the interfering element 8 is not received; (as per claim 10) wherein the second surface 3a comprises a recessed surface having a depth below the first surface; and the interfering element 8 has a height above a surface 6 of the tray that is at or less than the depth of the recessed surface of the disc cartridge such that, when

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received in the first orientation, the disc cartridge is substantially parallel with the surface of the tray; (as per claim 11) wherein the blocking element 10 is disposed over the surface of the tray by a first distance (see FIG. 1), and when received in the second orientation, i.e., incorrect insertion, the interfering element 8 contacts the first surface, i.e. main surface of housing 3, of the disc cartridge (see FIG. 3), and the height of the interfering element is sufficient to elevate a portion of the disc cartridge 3 away from the surface 6 of the tray by at least the first distance such that, during insertion into the opening, the elevated portion of the disc cartridge contacts the blocking element 10 to prevent entry into the opening (see para [0014] & [0015] and FIG. 3); (as per claim 12) further comprising a rail (not shown, but at least inherent within device 1 for proper operation of the tray 2 into/out of the opening 9) along which the tray is slidably received in the housing; (as per claim 15) wherein when accommodated at the first orientation, i.e., correct orientation, a centerline of the disc cartridge is disposed at a first angle that is substantially parallel with a direction in which the tray is loaded into the case through the opening, and when accommodated at the second orientation, i.e., incorrect orientation-see FIG. 3) the centerline of the disc cartridge is disposed to be sufficiently non-parallel with the direction so as misalign the disc cartridge to extend sufficiently away from the tray to contact the blocking element so as to prevent entry through the opening 9.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 6, 13, 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iwaki. For a description of Iwaki, see the rejection, supra.

With respect to claim 6, Iwaki has different locations for the step region, e.g., second surface, with respect to the first surface, thus not meeting the claim language.

It would have been considered obvious to one having ordinary skill in the art at the time the invention was made to have modified the orientation(s) of the two surfaces of the cartridge of Iwaki. The motivation would have been: lacking criticality and any unobvious or unexpected results, modifying the locations/orientations of the first surface and/or shutter would have been provided through routine engineering optimization and experimentation. Changing these locations would not change the general concept of the invention, which is primarily taught by Iwaki. Furthermore, it has been held that rearranging parts of an invention involves only routine skill in the art; see In re Japikse, 86 USPO 70 (CCPA 1950).

With respect to claim 13, although not expressly shown, Official Notice is taken that the use of an optical pickup with a mini disc (see para [0002]) is notoriously old and well known, therefore, if not inherent, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have provided an optical pickup within the apparatus 1 of Iwaki. The motivation would have been: using an optical pickup with a mini disc was conventionally known.

With respect to claim 14 and the tray being capable of receiving a disc not having a cartridge as well, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the recess of the tray 2 of lwaki to have accepted such a configuration. The motivation would have been: modifying the tray to have accepted both types

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of discs, i.e., disc in a cartridge and a "naked" disc would have increased the functionality of the apparatus of Iwaki, and improved its marketability, which would have been readily apparent to a skilled artisan in this field. It is noted that this type of combination disc trays are conventionally used in this field.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure including US Patents to Seo (5586092) and Choi (5,615197). Choi discloses the use of having a tray for loading both a "naked" disc and a disc within a cartridge and an optical pickup unit.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian E. Miller whose telephone number is (571) 272-7578. The examiner can normally be reached on M-TH 6:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T. Nguyen can be reached on (571) 272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

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9199 (IN USA OR CANADA) or 571-272-1000.

Brian E. Miller Primary Examiner Art Unit 2627

BEM

June 23, 2006